



**United States Environmental Protection Agency
Region 9 Laboratory**

1337 S. 46th Street Building 201
Richmond, CA 94804

Date: 6/9/2016

Subject: Analytical Testing Results - Project R16N02
SDG: 16138A

From: Peter Husby, Director *PH*
EPA Region 9 Laboratory
EMD-3-1

To: Eugene E. Bromley
NPDES Permits Section
WTR-2-3

Attached are the results from the analysis of samples from the **Southern California Oil Platforms Spring 2016** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Electronic CC: Colby Tucker, Enforcement, Water Section
Susan Zaleski, BOEM
James Salmons, BSEE

Analyses included in this report:

Semivolatile Organic Compounds by GC/MS

Abalone Toxicity



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Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Eugene E. Bromley	NPDES Permits Section	SDG: 16138A
Project Number: R16N02	75 Hawthorne Street	Reported: 06/09/16 15:30
Project: Southern California Oil Platforms Spring 2016	San Francisco CA, 94105	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
Hillhouse	1605029-01	Water	05/17/16 08:30	05/18/16 09:55

SDG ID 16138A

Work Order(s)

1605029

Sample containers received for oil and grease analysis were provided to Curtis and Thompkins Laboratory for analysis .

Abalone Toxicity: Requested analysis was for abalone development toxicity using *Haliotis rufescens* (red abalone) following Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, EPA/600/R-95/136 and USEPA Region 9 Laboratory SOP #1004, RED ABALONE (*Haliotis rufescens*) LARVAL DEVELOPMENT TOXICITY TEST. A concurrent reference toxicity test was conducted for quality control as specified in the method. Statistical analyses were conducted using the CETIS statistical database program, version 1.9.0.8 for the reference toxicity test and produced water toxicity tests.

The test concentrations were based on the oil platform NPDES general permit requirements using the Test of Significant Toxicity (TST) approach described in *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document* (EPA 833-R-10-003, 2010). The chronic WET permit limit that must be met is rejection of the null hypothesis (Ho). Platform Hillhouse results rejected the null hypothesis and is reported as Pass. All QA/QC criteria were met.



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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1605029-01						Water - Sampled: 05/17/16 08:30			
Sample ID: Hillhouse						Semivolatile Organic Compounds by EPA Method 8270D			
Benzo(a)anthracene		ND	U	9.9	ug/L	B16E072	05/18/16	05/24/16	8270D
Chrysene		ND	U	9.9	"	"	"	"	8270D
Benzo(b)fluoranthene		ND	U	9.9	"	"	"	"	8270D
Benzo(k)fluoranthene		ND	U	9.9	"	"	"	"	8270D
Benzo(a)pyrene		ND	U	9.9	"	"	"	"	8270D
Dibenz(a,h)anthracene		ND	U	9.9	"	"	"	"	8270D
Surrogate: Terphenyl-d14			90 %	47-130%		"	"	"	
Sample ID: Hillhouse						Aquatic Toxicity Test by EPA Methods			
Test of Significant Toxicity		Pass		%		B16F029	05/18/16	05/18/16	TOX_SOP1004

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B16E072 - 3520C CLLE - SVOCs						Prepared: 05/18/16 Analyzed: 05/24/16				
						Semivolatile Organic Compounds by EPA Method 8270D - Quality Control				
Blank (B16E072-BLK1)										
Benzo(a)anthracene	ND	U		1 ug/L						
Chrysene	ND	U		1 "						
Benzo(b)fluoranthene	ND	U		1 "						
Benzo(k)fluoranthene	ND	U		1 "						
Benzo(a)pyrene	ND	U		1 "						
Dibenz(a,h)anthracene	ND	U		1 "						
Surrogate: Terphenyl-d14			57.6	"	50.0		115	47-130		
LCS (B16E072-BS1)										
Benzo(a)anthracene	9.61			1 ug/L	10.0		96	67-110		200
Chrysene	9.84			1 "	10.0		98	67-111		200
Benzo(b)fluoranthene	9.56			1 "	10.0		96	60-110		200
Benzo(k)fluoranthene	10.7			1 "	10.0		107	65-117		200
Benzo(a)pyrene	8.37			1 "	10.0		84	56-110		200
Dibenz(a,h)anthracene	7.65			1 "	10.0		76	59-119		200
Surrogate: Terphenyl-d14			53.6	"	50.0		107	47-130		



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Qualifiers and Comments

Pass Pass

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.